

**Response of
Wisconsin Power and Light Company
to
The Public Service Commission of Wisconsin
Data Request No. 1.18**

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Information Requested By: Ken Detmer
Date Responded: March 5, 2009
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Witness: (If other than Author)

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p. 52 Table 10: Document how energy sales for 2008 were compiled and how the results correlate to FERC Form 1 (Historically, results have equaled native load as provided in FERC Form 1). Provide analysis of how this was incorporated into EGEAS.

February 5, 2009 Clarification to Data Request No. 1.18: PSCW Staff is interested in receiving historic load data for energy and peak and a comparison of WPL native load to FERC Form 1.

Response:

Please see the attached.

The EGEAS data files used to support the instant application reflect updates prepared during the period of May through October 2008. Among these updates is the forecast completed in March 2008. The forecast relied on actual data from 1987 through 2006. As such, the forecast used in the EGEAS analysis presented in the instant application excludes actual 2008 data.

WPL Historical Load Data

Line	YEAR	Energy			Natural Peak			Weather Normalized Peak		
		Energy GWH	Year to Year	Rolling Five Year Average	Peak MW	Year to Year	Rolling Five Year Average	Peak MW	Year to Year	Rolling Five Year Average
1	1980	7,150			1,259			1,274		
2	1981	7,172	0.31%		1,262	0.24%		1,299	1.96%	
3	1982	7,130	-0.59%		1,252	-0.79%		1,301	0.15%	
4	1983	7,581	6.33%		1,403	12.06%		1,327	2.00%	
5	1984	7,893	4.12%		1,427	1.71%		1,385	4.37%	
6	1985	8,092	2.52%	2.54%	1,371	-3.92%	1.86%	1,410	1.81%	2.06%
7	1986	8,281	2.34%	2.94%	1,470	7.22%	3.26%	1,442	2.27%	2.12%
8	1987	8,773	5.94%	4.25%	1,634	11.16%	5.64%	1,497	3.81%	2.85%
9	1988	9,426	7.44%	4.47%	1,819	11.32%	5.50%	1,647	10.02%	4.46%
10	1989	9,597	1.81%	4.01%	1,777	-2.31%	4.69%	1,735	5.34%	4.65%
11	1990	9,768	1.78%	3.86%	1,821	2.48%	5.97%	1,812	4.44%	5.18%
12	1991	10,118	3.58%	4.11%	1,863	2.31%	4.99%	1,825	0.72%	4.87%
13	1992	10,199	0.80%	3.08%	1,782	-4.35%	1.89%	1,866	2.25%	4.55%
14	1993	10,664	4.56%	2.51%	1,971	10.61%	1.75%	1,970	5.57%	3.66%
15	1994	11,125	4.32%	3.01%	2,002	1.57%	2.52%	2,043	3.71%	3.34%
16	1995	11,691	5.09%	3.67%	2,197	9.74%	3.98%	2,104	2.99%	3.05%
17	1996	11,908	1.86%	3.33%	2,123	-3.37%	2.84%	2,168	3.04%	3.51%
18	1997	12,367	3.85%	3.94%	2,253	6.12%	4.93%	2,253	3.92%	3.85%
19	1998	12,311	-0.45%	2.93%	2,311	2.57%	3.33%	2,311	2.57%	3.25%
20	1999	12,560	2.02%	2.47%	2,397	3.72%	3.76%	2,374	2.73%	3.05%
21	2000	12,982	3.36%	2.13%	2,508	4.63%	2.74%	2,508	5.64%	3.58%
22	2001	13,064	0.63%	1.88%	2,696	7.50%	4.91%	2,655	5.86%	4.15%
23	2002	13,481	3.19%	1.75%	2,674	-0.82%	3.52%	2,736	3.05%	3.97%
24	2003	13,696	1.59%	2.16%	2,782	4.04%	3.81%	2,757	0.77%	3.61%
25	2004	13,944	1.81%	2.12%	2,627	-5.57%	1.96%	2,808	1.85%	3.43%
26	2005	14,637	4.97%	2.44%	2,854	8.64%	2.76%	2,922	4.06%	3.12%
27	2006	14,545	-0.63%	2.19%	2,941	3.05%	1.87%	2,933	0.38%	2.02%
28	2007	14,848	2.08%	1.97%	2,816	-4.25%	1.18%	2,912	-0.72%	1.27%
29	2008	14,728	-0.81%	1.49%	2,583	-8.27%	-1.28%	2,897	-0.52%	1.01%
30										
31			Yr. to Yr.	5 yr. Avg.		Yr. to Yr.	5 yr. Avg.		Yr. to Yr.	5 yr. Avg.
32		High	7.44%	4.47%	High	12.06%	5.97%	High	10.02%	5.18%
33		Low	-0.81%	1.49%	Low	-8.27%	-1.28%	Low	-0.72%	1.01%
34		Average	2.64%	2.89%	Average	2.75%	3.27%	Average	3.00%	3.36%
35										
36		Avg. Last 5 years	1.49%		Avg. Last 5 years	-1.28%		Avg. Last 5 years	1.01%	
37										
38		Avg. Last 10 Years	1.82%		Avg. Last 10 Years	1.27%		Avg. Last 10 Years	2.31%	
39										
40		Highest 3 yr. Avg.	5.24%		Highest 3 yr. Avg.	9.90%		Highest 3 yr. Avg.	6.60%	

Comparison of WPL Native Load to FERC Form 1 with MISO Adjustment based on Historic Losses

	a	b	c	d	e	f	g	h	i
	Actual		Total Energy	Non-	Non-Req	MISO	Required	Required	Actual Energy
	Energy Usage		MWH	Required	Resale	Adjustment	Energy	Energy	Usage Less
	GWH			Sales	losses		(Calculated)	(Calculated)	Required Energy
	Note 1		Note 2	MWH	MWH	MWH	MWH	GWH	GWH
				Note 3	Note 4	Note 5	Note 6	Note 7	
2000	12,982		13,896,911	-945,751	-22,766		12,928,394	12,928	54
2001	13,064		14,160,030	-1,065,938	-53,877		13,040,215	13,040	24
2002	13,481		14,655,463	-1,083,628	-64,472		13,507,363	13,507	-26
2003	13,696		15,158,818	-1,411,606	-66,019		13,681,193	13,681	15
2004	13,944		14,898,283	-906,200	-47,883		13,944,200	13,944	0
2005	14,637		15,428,711	-1,251,434	-29,389	446,475	14,594,363	14,594	43
2006	14,545		15,605,332	-1,713,057	-16,036	660,793	14,537,032	14,537	8
2007	14,848		15,949,922	-1,291,674	-42,052	87,783	14,703,979	14,704	144
2008	14,728		15,373,174	-862,669	-40,562	96,733	14,566,676	14,567	161

- 1) WPL Actual Energy Usage from WPL Forecasting.
- 2) Total Energy from FERC Form 1 p. 401a, Line 28
- 3) Non Requirements Sales for Resale FERC Form 1 p.401a, Line 24
- 4) Non-Requirements losses calculated as (-) FERC Form 1 P401a L24 - P401b L41(c)
- 5) Calculated in tab "1.17 Part A" The MISO Adjustments takes into account historical average losses.
- 6) Required Energy = Total Energy - Non-Requirement Sales - Non-Req Resale Losses + MISO Adjustment
Required Energy (Calculated) includes losses at the 5.0% historic average.
- 7) Required Energy divided by 1,000